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Basin Outlook Reports

and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

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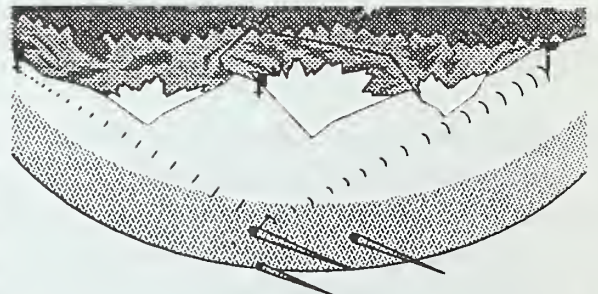
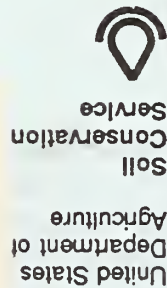
How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Soil Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

Basin Outlook Reports



Rock Pointe Tower II
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In addition to basin outlook reports, a Water Supply Forecast for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209-3489.

Issued by

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2/11/82

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FEBRUARY 1991

GENERAL OUTLOOK

SUMMARY:

JANUARY PRECIPITATION WAS 67% OF NORMAL STATE WIDE, AND VARIED FROM 54% OF AVERAGE IN THE SPOKANE BASIN TO 94% IN THE COLVILLE BASIN. YEAR-TO-DATE PRECIPITATION VARIES FROM 80% IN THE COLVILLE TO 143% IN THE NORTH PUGET. JANUARY TEMPERATURES WERE BELOW NORMAL AND VARIED FROM 4 DEGREES BELOW IN THE OKANOGAN BASIN TO NORMAL IN THE WALLA WALLA BASIN. THE SNOWPACK IS NOW BELOW NORMAL STATE WIDE, BUT VARIES FROM 37% IN THE COLVILLE BASIN TO 144% IN THE CHELAN BASIN. WASHINGTON'S SNOTEL SITES ARE AVERAGING 86% OF NORMAL SNOWPACK ON FEBRUARY 1 (BY FEBRUARY 8, THE STATEWIDE AVERAGE WAS 87%). FEBRUARY 1 RESERVOIR STORAGE IS GENERALLY GOOD THROUGHOUT THE STATE, WITH RESERVOIRS IN THE YAKIMA BASIN AT 125% OF AVERAGE AND 75% OF CAPACITY. JANUARY STREAMFLOWS VARIED FROM 198% OF NORMAL ON THE WENATCHEE RIVER TO 56% ON THE LEWIS RIVER AT AERIL. FORECASTS FOR 1991 RUNOFF VARY FROM 145% OF AVERAGE FOR SMILKAMEEN RIVER TO 61% ON MILL CREEK IN THE WALLA WALLA BASIN.

SNOWPACK:

Snowpack, as a percent of normal, declined in Washington during January. Snowpack varies over the state from 144% of normal in the Chelan Basin to 37% in the Colville Basin. In the Walla Walla River Basin snowpack is 48%. The Yakima Basin is now at 68%. Snowpack along the west slopes of the Cascade Mountains are the Green with 76%, the Cowlitz Basin with 79% and the Skagit 139%. The eastern slopes of the Cascade Mountains show the Wenatchee Basin at 92% of normal, and the Spokane at 93%. SNOTEL sites in Washington are showing snowpack that is 86% of average for February 1, state wide. Maximum snow cover is at the Lyman Lake SNOTEL, in the Chelan Basin, with 64.3 inches, up from 52.1 inches of water content. This site would normally have 45.0 inches of water content on February 1.

PRECIPITATION:

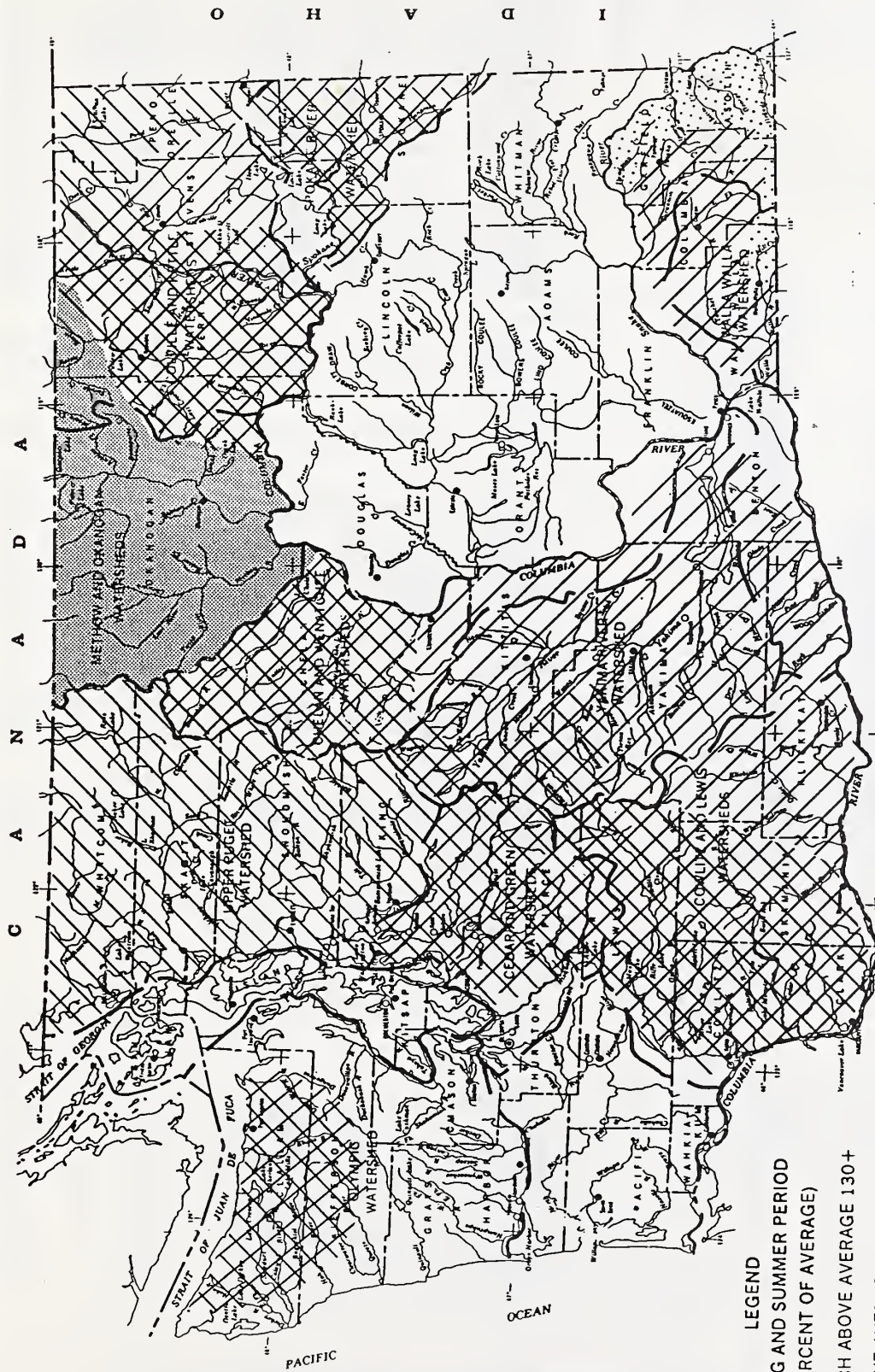
January precipitation varied from 94% of average in the Colville Basin, to 51% in the Walla Walla Basin. State wide, January precipitation from National Weather Service stations was 67% of average. The year-to-date precipitation varied from 143% of normal in the North Puget Basin to 80% in the Colville-Pend Oreille Basin. SNOTEL sites in Washington showed the high elevation year-to-date precipitation values to be 115%, down from 131% of average last month. Maximum year-to-date precipitation was at the Olallie Meadows SNOTEL site near Snoqualmie Pass with 104.5 inches since October 1, 1990, normal for this site would be 63.5 inches.

RESERVOIRS:

Reservoir storage in the Yakima Basin was 803,200 acre feet, 125% of normal. Reservoir storage is good and varies with reservoirs in the Cascade Mountains above average for February 1, and those on the east side of the state below average. Storage at other reservoirs include Roosevelt at 117% of average and the Okanogan reservoirs contain 135% of February 1 normal. The power reservoirs contain the following: Coeur d'Alene Lake, 162,200 acre feet, or 79 % of normal; Chelan Lake, 503.100 acre feet at 112% of average and 74% of capacity, and Ross Lake at 102% of average, and 75% of capacity.

STREAMFLOW:

Streamflow forecasts were down from last month and varied from 159% of average for the Smilkameen River to 61% of normal on Mill Creek in the Walla Walla River Basin. February forecasts for some west side streams include: Cedar River, 96%; Skagit River, 120%; and the Dungeness River, 88%. Some east side streams include the Yakima River at Parker 82%; the Wenatchee River at Peshastin 105% and the Okanogan River, 152%. January streamflows were generally above average in northern Washington and below in the south. Streamflows were the following percent of normal, the Cowlitz River, 92%, the Walla Walla River, 66%; the Spokane River, 104%; the Columbia at the Canadian border, 119%. The Wenatchee River with 198% was the highest in the state. The Okanogan River was 170%, and the Methow with 168 continued high.



LEGEND
SPRING AND SUMMER PERIOD
(PERCENT OF AVERAGE)

MUCH ABOVE AVERAGE 130+

ABOVE AVERAGE 110-130

NEAR AVERAGE 90-110

BELOW AVERAGE 70-90

MUCH BELOW AVERAGE 70+ LESS

NOT FORECAST

WATERSHED BOUNDARY

FEBRUARY 1, 1991

STREAMFLOW PROSPECTS WASHINGTON



SOURCE: Data compiled by SCS Field Personnel.

S N O W C O U R S E D A T A

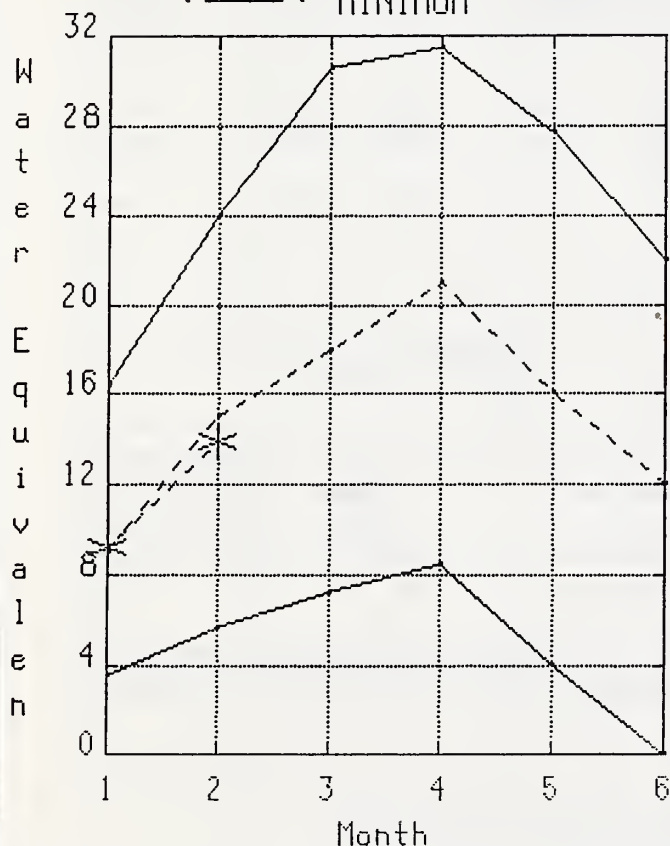
FEBRUARY 1991

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85		
COLOCUM CREEK															
PENO OREILLE RIVER							TROUGH #2	PILLW	5310	2/01/91	---	2.8S	4.8	8.7	
BENTON MEADOW	2370	1/30/91	13	3.5	2.2	5.1	YAKIMA RIVER								
BENTON SPRING	4920	1/30/91	38	12.0	11.6	13.2	ANTANUM R.S.	3100	2/01/91	---	4.5E	2.8	6.0		
BUNCHGRASS MEADOWS	5000	2/01/91	---	22.8E	20.0	21.3	BIG BOULDER CREEK	3200	1/29/91	35	12.4	12.8	13.3		
BUNCHGRASS MOWPILLW	5000	2/01/91	---	21.8	19.9	20.9	BLEWETT PASS #2	4270	1/28/91	26	9.6	13.0	11.9		
HEART LAKE TRAIL	4800	2/01/91	---	17.1E	---	15.2	BLEWETT PASS#2PILLW	4270	2/01/91	---	7.8S	14.5	18.1		
HOOOON BASIN	6050	2/01/91	---	40.1E	---	34.6	BUMFING LAKE	3450	1/30/91	15	6.1	9.5	11.8		
HOOOON CREEK	5900	2/01/91	---	35.7E	---	31.7	BUMFING LAKE (NEW)	3400	1/30/91	18	7.8	11.3	14.5		
LOOKOUT	5140	2/04/91	63	21.0	21.8	23.6	BUMFING RIDGE PILLW	4600	2/01/91	---	13.4S	12.9	18.4		
LOOKOUT CAN.	3100	2/01/91	40	10.4	9.6	11.3	CAYUSE PASS	5300	2/01/91	---	40.6E	43.3	54.1		
NELSON	6200	2/01/91	---	28.0E	30.2	32.2	COLOCUM PASS	5370	1/28/91	26	6.9	7.8	11.8		
SCHWEITZER RIDGE							CORRAL PASS	6000	2/01/91	---	21.8S	---	24.9		
KETTLE RIVER							FSN LAKE	3370	1/29/91	58	20.4	24.2	22.4		
BARNES CREEK	CAN.	5300	1/29/91	61	18.7	16.9	13.6	FISH LAKE	3370	2/01/91	---	19.4S	27.7	25.6	
BIG WHITE MTH	CAN.	5510	1/27/91	53	15.5	10.6	12.8	GREEN LAKE	6000	2/01/91	---	17.2E	15.9	23.4	
BUTTE CREEK		4070	2/01/91	---	5.0E	3.3	6.7	GREEN LAKE	6000	2/01/91	---	10.5S	11.3	14.3	
FARROW	CAN.	4000	1/29/91	32	8.7	6.0	9.8	GROUSE CAMP	5380	2/01/91	---	7.0S	12.9	13.6	
GOAT CREEK		3600	1/31/91	19	4.3	2.9	5.4	LAKE CLE ELUM	2200	1/28/91	11	3.4	5.7	7.3	
HOMASHEE PASS	CAN.	4500	1/29/91	43	12.6	11.1	9.4	MORSE LAKE	5400	2/01/91	---	13.1S	27.5	34.8	
SUMMIT G.S.		4600	2/01/91	---	4.0E	---	5.7	OLALLIE E.S. PILLW	3960	2/01/91	---	32.9S	28.9	45.1	
COLVILLE RIVER							OLALLIE MEADOWS	3630	2/01/91	51	22.4	19.3	30.2		
TOGO		3370	1/30/91	14	3.0	4.2	8.2	SASSE RIDGE	4200	2/01/91	---	17.1S	21.1	24.8	
OMAK LAKE, TWIN LAKES							STAMPEDE PASS PILLW	3860	2/01/91	---	25.9S	31.8	27.8		
MISSION (OMAK)		1150	1/29/91	26	7.5	---	---	TUNNEL AVENUE	2450	1/29/91	35	11.2	17.9	15.7	
MOUNT TOLMAN		2000	1/25/91	8	1.8	---	---	WHITE PASS ES PILLW	4500	2/01/91	---	12.9S	15.0	17.2	
TWIN LAKES		2700	1/23/91	15	3.2	1.3	---	AHTANUM CREEK							
SPOKANE RIVER							ANTANUM R.S.	3100	2/01/91	---	4.5E	2.8	6.0		
ABOVE BURKE		4100	2/01/91	---	14.0E	12.3	14.2	GREEN LAKE	6000	2/01/91	---	17.2E	15.9	23.4	
FOURTH OF JULY SUM		3200	2/04/91	14	3.8	8.0	7.1	GREEN LAKE	6000	2/01/91	---	10.5S	11.3	14.3	
LOOKOUT		5140	2/04/91	63	21.0	21.8	23.6	MILL CREEK							
LOST LAKE		6110	2/01/91	---	41.4E	33.3	39.1	HIGH RIDGE	4980	2/01/91	---	10.0S	8.2	20.8	
MOSQUITO RIDGE		5200	1/30/91	75	25.2	27.0	26.2	TOUCHET #2	5530	1/29/91	---	15.6S	---	22.4	
MOSQUITO PILLW		5200	2/01/91	---	25.1	26.8	26.3	LEWIS - COWLITZ RIVERS							
SNEKWIN		3200	2/01/91	---	7.6E	8.1	9.8	CAYUSE PASS	5300	2/01/91	---	40.6E	43.3	54.1	
SUNSET		5540	1/29/91	80	22.5	17.4	22.8	JUNE LAKE	3200	2/01/91	---	21.0S	23.5	19.5	
SUNSET PILLW		5540	2/01/91	---	26.5	22.1	24.3	LONE PINE	3800	2/01/91	---	13.7S	15.0	28.6	
MEHMAN LAKE							PARADISE PARK	5500	2/01/91	---	49.3S	39.1	47.7		
QUARTZ PEAK	PILLW	4700	2/01/91	---	11.7	14.1	---	PICTAIL PEAK	5900	2/01/91	---	40.9S	31.6	35.1	
OKANOGAN RIVER							POTATO HILL	4500	2/01/91	---	12.2S	13.6	21.2		
ABERDEEN LAKE	CAN.	4300	1/30/91	23	6.2	3.1	5.0	SHEEP CANYON	4050	2/01/91	---	23.9S	---	30.7	
BLACKHALL PEAK	CAN.	6370	1/24/91	109	41.9	22.6	23.8	SPENCER MOW	3400	2/01/91	---	12.0S	19.8	19.4	
EMOERY	CAN.	6200	1/31/91	99	36.5	30.7	24.8	SPIRIT LAKE	3100	2/01/91	---	1.1S	10.1	10.0	
FREEZEOUT CK. TRAIL		3500	1/31/91	35	12.0	4.1	9.3	22C08S IS NOT ON FILE							
GREYBACK RES	CAN.	5120	1/31/91	35	9.5	4.3	6.1	SURPRISE LKS PILLW	4250	2/01/91	---	24.6S	27.5	36.0	
HAMILTON HILL	CAN.	4890	1/27/91	48	15.6	7.4	10.8	WHITE PASS ES PILLW	4500	2/01/91	---	12.9S	15.0	17.2	
HARTS PASS		6500	1/31/91	111	41.0	---	30.7	WHITE RIVER							
HARTS PASS PILLW		6500	2/01/91	---	49.8S	34.0	39.1	CAYUSE PASS	5300	2/01/91	---	40.6E	43.3	54.1	
ISINTOK LAKE	CAN.	5500	1/30/91	31	8.6	4.0	5.6	CORRAL PASS	6000	2/04/91	25	13.5	20.7	---	
LOST HORSE MTH	CAN.	6300	1/30/91	44	12.6	6.4	6.5	CORRAL PASS	6000	2/01/91	---	21.8S	---	24.9	
MCCULLOCH	CAN.	4200	1/31/91	28	7.1	4.7	5.0	MORSE LAKE	5400	2/01/91	---	13.1S	27.5	34.8	
MISSION CREEK	CAN.	5800	1/31/91	60	17.5	16.8	13.3	GREEN RIVER							
HOMASHEE PASS	CAN.	4500	1/29/91	43	12.6	11.1	9.4	COUGAR MTH. PILLW	3200	2/01/91	---	13.6S	12.6	13.6	
MT. KOBAU	CAN.	5900	1/29/91	24	5.8	4.1	8.7	GRASS MOUNTAIN #2	2900	2/05/91	0	0	5.0	11.6	
HUTTON CREEK #1		5700	1/30/91	24	6.2	4.2	9.7	LESTER CREEK	3100	2/05/91	33	11.2	9.0	15.2	
POSTILL LAKE	CAN.	4500	1/31/91	30	7.2	4.2	5.8	LYNN LAKE	4000	2/05/91	35	12.7	12.0	18.1	
RUSTY CREEK		4000	1/30/91	11	2.1	3.1	5.3	SAWHILL RIDGE	4700	2/05/91	49	18.7	18.0	24.3	
SALMON MOWS	PILLW	4500	2/01/91	---	4.1S	6.1	10.3	STAMPEDE PASS PILLW	3860	2/01/91	---	25.9S	31.8	27.8	
SILVER STAR MTH	CAN.	6000	1/27/91	68	22.8	16.8	19.2	TWIN CAMP	4100	2/05/91	38	15.0	17.0	16.8	
SUMMERLAND RES	CAN.	4200	1/28/91	30	7.4	4.3	7.0	SNOQUALMIE RIVER							
SUNDAY SUMMIT	CAN.	4300	1/27/91	27	6.9	3.0	4.8	KRODHONA MINE	2400	1/30/91	48	21.1	---	---	
TROUT CREEK	CAN.	4690	1/26/91	29	7.4	3.1	5.6	OLALLIE E.S. PILLW	3960	2/01/91	---	32.9S	28.9	45.1	
WHITE ROCKS MTH	CAN.	6000	2/01/91	48	14.9	8.6	15.7	OLALLIE MEADOWS	3630	2/01/91	51	22.4	19.3	30.2	
METHOW RIVER							OLNEY PASS	3250	1/30/91	37	16.7	---	---		
HARTS PASS		6500	1/31/91	111	41.0	---	30.7	SKYKOMISH RIVER							
HARTS PASS PILLW		6500	2/01/91	---	49.8S	34.0	39.1	STAMPEDE PASS PILLW	3860	2/01/91	---	25.9S	31.8	27.8	
HUTTON CREEK #1		5700	1/30/91	24	6.2	4.2	9.7	STEVENS PASS PILLW	4070	2/01/91	---	31.2S	35.0	29.7	
RUSTY CREEK		4000	1/30/91	11	2.1	3.1	5.3	STEVENS PASS SAND SO	3700	1/30/91	62	22.3	24.0	24.3	
SALMON MOWS	PILLW	4500	2/01/91	---	4.1S	6.1	10.3	SKAGIT RIVER							
CHELAN LAKE BASIN							BEAVER CREEK TRAIL	2200	1/31/91	32	10.0	8.3	10.1		
CLOUDY PASS	AM	6500	1/28/91	112	44.8	28.7	27.9	BEAVER PASS	3680	1/31/91	52	19.0	16.1	20.3	
LYMAN LAKE		5900	1/28/91	36	14.4	42.2	41.0	BROWN TOP	6000	1/31/91	167	65.0	41.6	41.7	
LYMAN LAKE PILLW		5900	2/01/91	---	64.3S	46.3	45.0	CLOUDY PASS	6500	1/28/91	112	44.8	28.7	27.9	
LITTLE MOWS	AM	5280	1/28/91	100	40.0	30.5	29.7	DEVILS PARK	5900	1/31/91	135	49.9	27.4	31.0	
MINERS RIDGE PILLW		6200	2/01/91	---	52.9S	41.0	---	FREEZEOUT CK. TRAIL	3500	1/31/91	35	12.0	4.1	9.3	
PARK CREEK RIDGE		4600	2/01/91	---	43.5E	35.4	33.3	HARTS PASS	6500	1/31/91	111	41.0	---	30.7	
PARK CK RIDGE PILLW		4600	2/01/91	---	42.6S	34.3	32.3	HARTS PASS PILLW	6500	2/01/91	---	49.8S	34.0	39.1	
RAINY PASS		4780	1/31/91	104	35.0	29.6	28.2	KLESILKHA	CAN.	3710	1/25/91	42	14.1	9.5	9.3
RAINY PASS PILLW		4780	2/01/91	---	40.6S	---	34.3	LYMAN LAKE	5900	1/28/91	36	14.4	42.2	41.0	
ENTIAI RIVER							LYMAN LAKE PILLW	5900	2/01/91	---	64.3S	46.3	45.0		
BRIEF		1600	1/29/91	15	3.9	4.2	6.1	MEADOWS CARIN	1900	1/31/91	19	7.0	2.7	5.7	
POPE RIDGE	PILLW	3540	2/01/91	---	10.5S	12.8	12.4	NEW HOZOMEEN LAKE	2800	1/31/91	32	10.0	7.2	8.3	
HENACHEE RIVER							RAINY PASS	4780	1/31/91	104	35.0	29.6	28.2		
BERNE-HILL CREEK		3170	1/30/91	55	18.3	21.4	20.0	RAINY PASS PILLW	4780	2/01/91	---	40.6S	---	34.3	
BLEWETT PASS #2		4270	1/28/91	26	9.6	13.0	11.9	THUNOER BASIN	4200	1/31/91	47	16.0	10.8	13.4	
BLEWETT PASS#2PILLW		4270	2/01/91	---	7.8S	14.5	18.1	ELMHA RIVER							
CHIMAUUM G.S.		2500	1/30/91	20	5.4	6.5	8.9	HURRICANE	4500	1/30/91	28	8.8	8.0	14.2	
FISH LAKE	PILLW	3370	2/01/91	---	19.4S	27.7	25.6	HORSE CREEK							
LYMAN LAKE		5900	1/28/91	36	14.4	42.2	41.0	COX VALLEY	4500	1/29/91	54	20.5	14.5	25.5	
LYMAN LAKE PILLW		5900	2/01/91	---	64.3S	46.3	45.0	OUNGENESS RIVER							
MERRITT		2140	1/30/91	32	10.2	10.2	13.0	DEER PARK	5200	1/28/91	30	10.6	9.5	13.9	
MISSION RIDGE		5000	1/29/91	26	7.5	7.3	---	OUILCENE RIVER							
STEVENS PASS PILLW		4070	2/01/91	---	31.2S	35.0	29.7	MOUNT CRAG	4050	2/01/2					

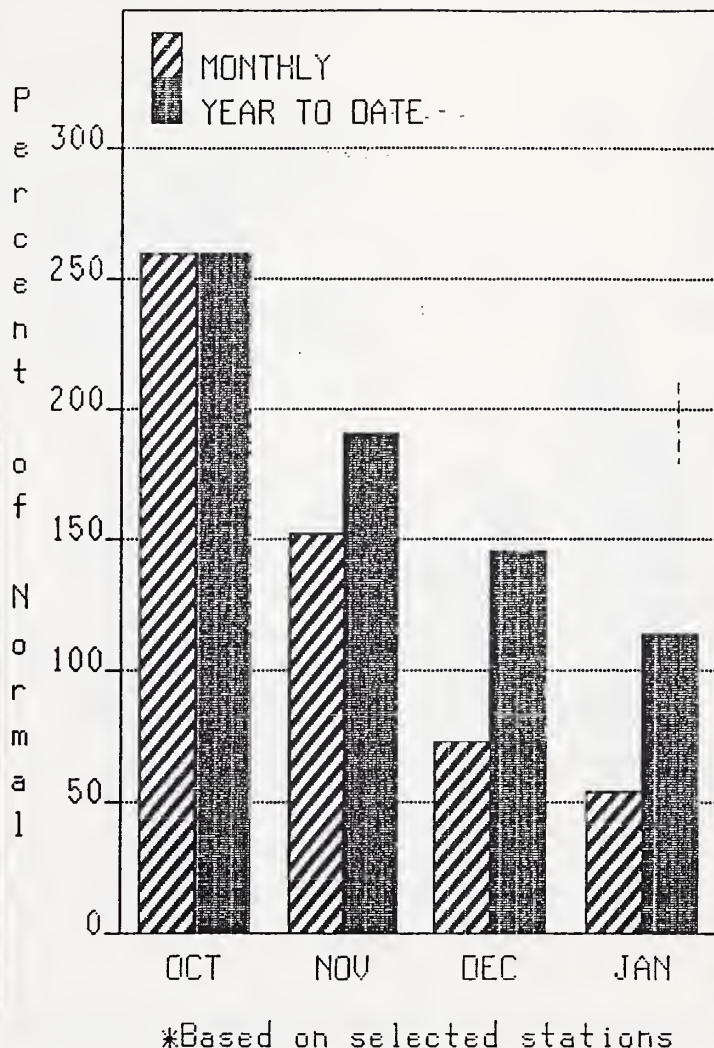
SPOKANE

Mountain snowpack* (inches)
SPOKANE RIVER BASIN

--- CURRENT
- - - - AVERAGE
- - - - MAXIMUM
- - - - MINIMUM



Precipitation* (percent of normal)
SPOKANE RIVER BASIN



WATER SUPPLY OUTLOOK:

Forecasted summer runoff for the Spokane River Basin is 98% of normal this is down from 111% last month. This forecast is based on a snowpack 93% of average and a water year-to-date precipitation value 114% of normal. Precipitation for January was 54% of average. Streamflow on the Spokane River was 104% of normal for January. February 1 storage in Coeur d'Alene Lake was 162,200 acre feet, 79% of normal; average storage in Coeur d'Alene for February 1 is 205,400 acre feet. Temperatures in the basin were normal during January.

For more information contact your local Soil Conservation Service office.

SPOKANE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<div> <div><----- DRIER -----</div> <div>FUTURE CONDITIONS</div> <div>----- WETTER -----></div> </div>						
		CHANCE OF EXCEEDING *						
		90%	70%	50% (MOST PROBABLE)		30%	10%	25 YR.
		(1000AF)	(1000AF)	(1000AF) (% AVG.)		(1000AF)	(1000AF)	(1000AF)
SPOKANE nr Post Falls (1,2)	APR-SEP	1660	2450	2820	100	3160	3980	2820
	APR-JUL	1610	2370	2720	100	3050	3840	2723
SPOKANE at Long Lake (2)	APR-JUL	1740	2590	2980	98	3350	4230	3045

RESERVOIR STORAGE					WATERSHED SNOWPACK ANALYSIS			
(1000AF)								
RESERVOIR	USEABLE :	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
	CAPACITY:	THIS	LAST				-----	
		YEAR	YEAR	AVG.			LAST YR.	AVERAGE
COEUR D'ALENE	291.2	162.2	182.2	205.4	Spokane River	14	101	93

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

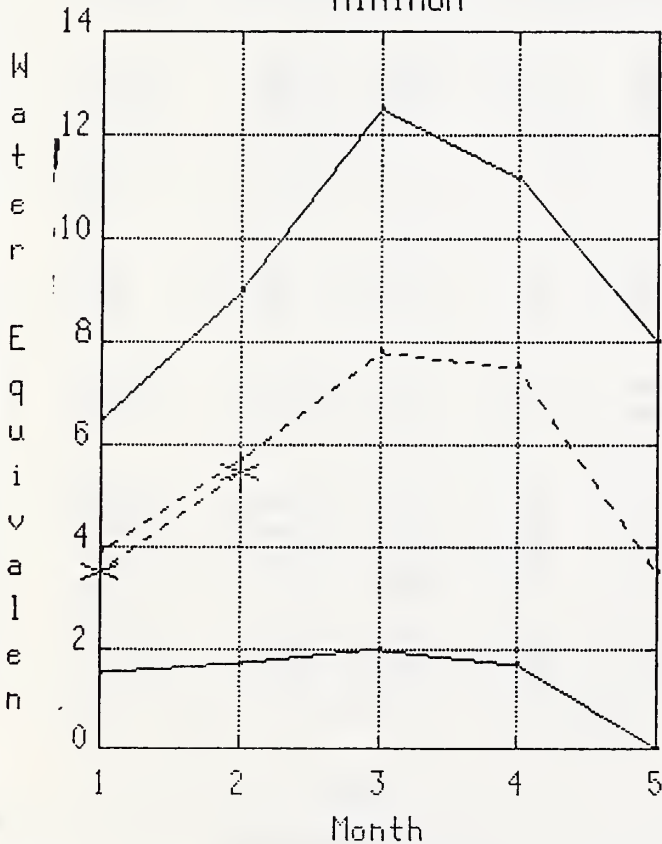
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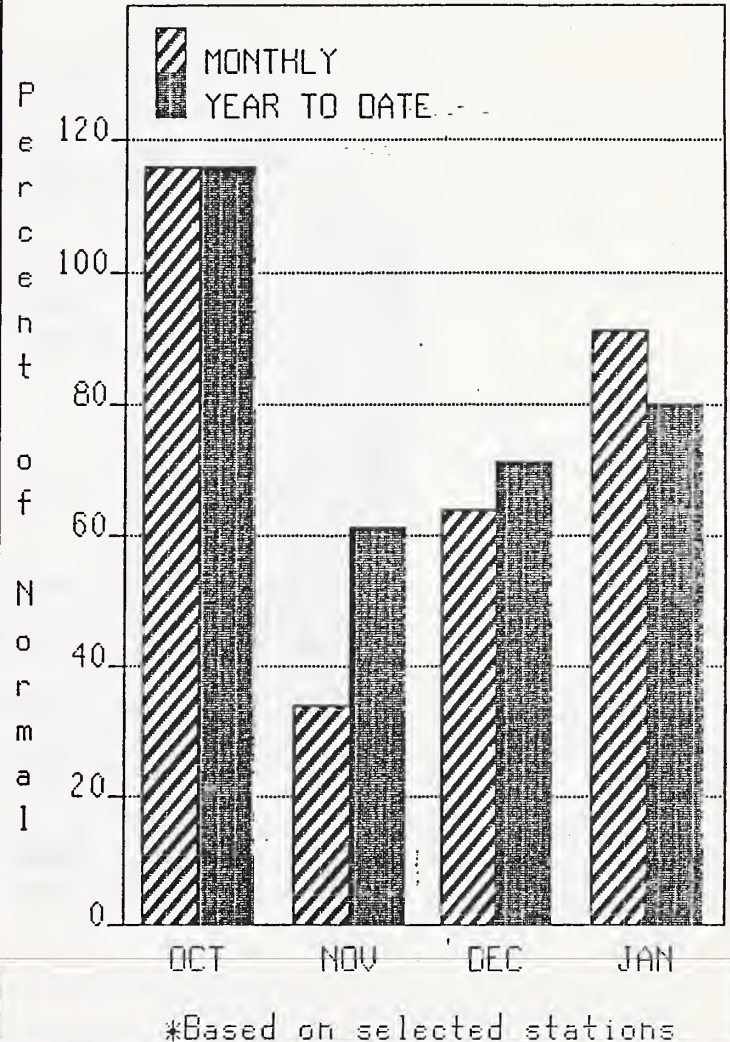
COLVILLE - PEND OREILLE

Mountain snowpack* (inches)
COLVILLE - PEND OREILLE RIVER BASIN

--- CURRENT
- - - - AVERAGE
- - - - MAXIMUM
- - - - MINIMUM



Precipitation* (percent of normal)
COLVILLE - PEND OREILLE RIVER BASINS



WATER SUPPLY OUTLOOK:

January streamflow was 98 % of normal on the Pend Oreille River, 119% on the Columbia at the International Boundary and 101% on the Kettle River. The forecast for the Kettle River streamflow is 110% of normal, the Pend Oreille 111% and the Colville River 78% of normal for the summer runoff period. Precipitation during January was 94% of average, bringing the water year-to-date to 80% of normal. February 1 snow cover is 91% of average on the Pend Oreille, 112% on the Kettle, and 37% on the Colville River. Snowpack at Bunchgrass Meadow SNOTEL site was 21.7 inches of water, the average February 1 reading is 20.2. Temperatures averaged near normal for January.

For more information contact your local Soil Conservation Service Office.

COLVILLE - PEND OREILLE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						
		<----- DRIER -----		FUTURE CONDITIONS		----- WETTER ----->		25 YR. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)		
PEND OREILLE bl Box Canyon (1,2)	APR-SEP	13000	15600	16900	111	18100	20600	15170
	APR-JUL	12000	14300	15500	112	16500	18900	13900
	APR-JUN	10300	12300	13300	111	14200	16300	11960
CHAMOKANE CK nr Long Lake	MAY-AUG	1.1	4.7	7.5	68	10.3	14.5	11.1
COLVILLE at Kettle Falls	APR-SEP	53	87	110	79	133	167	140
	APR-JUL	47	79	100	78	121	153	128
	APR-JUN	45	73	92	78	111	140	118
KETTLE nr Laurier	APR-SEP	1390	1800	2100	110	2400	2800	1907
	APR-JUL	1290	1710	1990	110	2270	2690	1807
	APR-JUN	1150	1530	1780	110	2030	2410	1622
COLUMBIA at Birchbank (1,2)	APR-SEP	48400	53300	55600	125	57700	62600	44390
	APR-JUL	38600	42500	44400	125	46100	50000	35440
	APR-JUN	28000	30800	32100	125	33300	36200	25650
COLUMBIA at Grand Coulee Dm (1,2)	APR-SEP	67100	75800	79600	120	83100	92400	66460
	APR-JUL	56300	63500	66800	120	69700	77500	55730
	APR-JUN	43900	49500	52100	120	54300	60400	43420

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY:	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
ROOSEVELT	5232.0	4395.7	4748.3	3749.0	Colville River	1	71 37
BANKS	NO REPORT				Pend Oreille River	6	101 91
					Kettle River	6	128 112

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1995 base period.

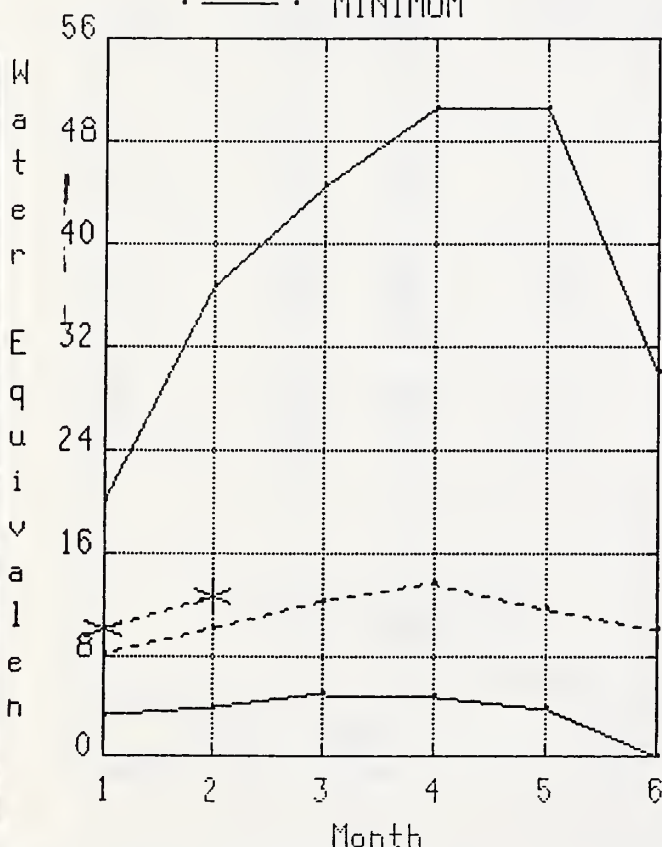
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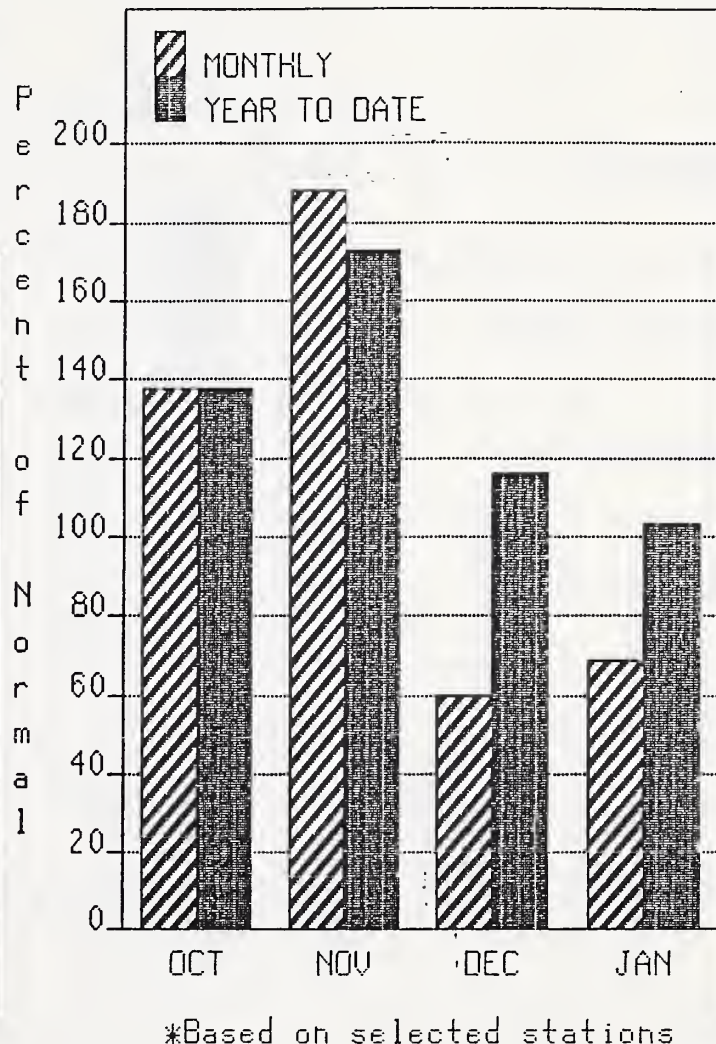
OKANOGAN AND METHOW

Mountain snowpack* (inches)
OKANOGAN - METHOW RIVER BASINS

--- CURRENT
 AVERAGE
 ——— MAXIMUM
 ——— MINIMUM



Precipitation* (percent of normal)
OKANOGAN - METHOW RIVER BASINS



WATER SUPPLY OUTLOOK:

June-September runoff forecast for the Okanogan River is 138% of normal; the Similkameen River, 145%, the highest in the state; and the Methow River, 145% of normal. February 1 snow cover was 125% of average on the Okanogan, and 97% for the Methow Basin. Temperatures were 4 degrees below normal for the month. January precipitation in the Okanogan-Methow was 90% of normal, with water year-to-date 109% of average. January streamflow on the Methow River was 168% of normal, 170 % on the Okanogan River, and 168% on the Similkameen. Summer runoff for the area's small streams is expected to be below normal, with Salmon Meadows SNOTEL having 4.1 inches of water against a normal of 10.3. Snow water content at the Harts Pass SNOTEL, elevation 6500 feet, was 49.8 inches of water content in the pack. Storage in the Conconully Reservoirs is 17,800 acre feet, which is 76% of capacity and 133% of February 1 average.

For more information contact your local Soil Conservation Service office.

OKANOGAN - METHOW RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<div> <div><----- DRIER -----</div> <div>FUTURE CONDITIONS</div> <div>----- WETTER -----></div> </div>						
		CHANCE OF EXCEEDING *						25 YR. (1000AF)
		90%	70%	50% (MOST PROBABLE)		30%	10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
SIMILKAMEEN nr Nighthawk	APR-SEP	1840	1980	2080	145	2180	2320	1432
	APR-JUL	1710	1840	1930	145	2020	2150	1333
	APR-JUN	1470	1590	1660	147	1730	1850	1129
OKANOGAN RIVER nr Tonasket	APR-SEP	1780	2080	2290	138	2500	2800	1661
	APR-JUL	1610	1890	2070	138	2250	2530	1501
	APR-JUN	1370	1580	1720	137	1860	2070	1256
METHOW RIVER nr Pateros	APR-SEP	860	1020	1130	115	1240	1400	980
	APR-JUL	785	935	1040	115	1140	1290	907
	APR-JUN	665	800	895	116	990	1130	770

RESERVOIR STORAGE					WATERSHED SNOWPACK ANALYSIS			
(1000AF)								
RESERVOIR	USEABLE : CAPACITY:	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
CONCONULLY LAKE (SALMON)	10.5	9.7	8.3	7.5	Okanogan River	22	152	125
CONCONULLY RESERVOIR	13.0	8.9	7.1	6.3	Methow River	4	131	97

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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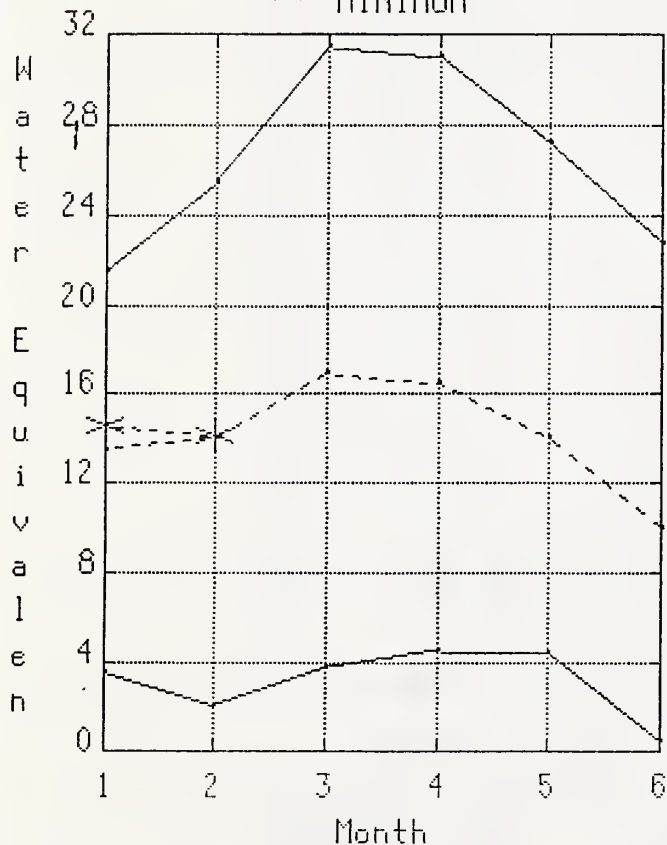
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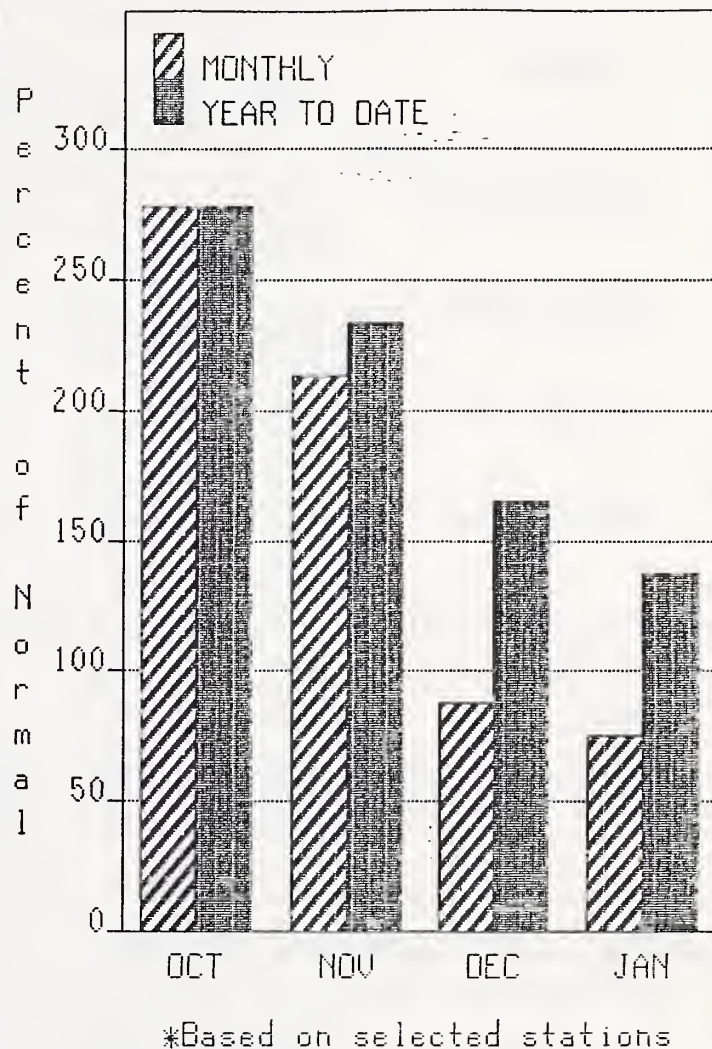
WENATCHEE AND CHELAN

Mountain snowpack* (inches)
WENATCHEE - CHELAN RIVER BASINS

--- CURRENT
- - - - AVERAGE
- - - - MAXIMUM
- - - - MINIMUM



Precipitation* (percent of normal)
WENATCHEE - CHELAN RIVER BASINS



WATER SUPPLY OUTLOOK:

February 1 snowpack in the Wenatchee Basin is 92%, down from 100% of average and the Chelan Basin 144% down from 152%. Reservoir storage in Lake Chelan is 503,100 acre feet or 112% of February 1 average and 74 % of capacity. Lyman Lake SNOTEL had the most snow water with 64.3 inches of water, this site would normally have 45.0 inches. Snowpack continues low along Colockum Ridge with only 55% of average along the Squilchuck - Stimilt drainage. Runoff for the Entiat River is forecast to be 95% of normal for the summer, down from 130% last month. Forecasts for the Chelan River are for 110%, Wenatchee River's runoff 105%, and 85% on the Squilchuck-Stemilt. Streamflow for January on the Chelan River was 86% of average and the Wenatchee River was 198% of normal. Precipitation during January was 79% of normal in the basin and 138% for the year-to-date.

For more information contact your local Soil Conservation Service office.

WENATCHEE - CHELAN RIVER BASINS

STREAMFLOW FORECASTS								
FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						
		CHANCE OF EXCEEDING *						
		90%	70%	50% (MOST PROBABLE)	30%	10%	25 YR.	
		(1000AF)	(1000AF)	(1000AF) (% AVG.)	(1000AF)	(1000AF)	(1000AF)	
CHELAN RIVER at Chelan (1)	APR-SEP	920	1180	1300 110	1420	1680	1182	
	APR-JUL	805	1040	1140 110	1240	1470	1040	
	APR-JUN	635	815	895 110	975	1160	815	
STEHEKIN R. at Stehekin	APR-SEP	705	800	870 103	940	1040	844	
	APR-JUL	595	680	735 103	790	875	714	
	APR-JUN	460	520	565 104	610	670	541	
ENTIAT RIVER nr Ardenvoir	APR-SEP	162	197	220 94	245	280	233	
	APR-JUL	155	188	210 95	230	265	221	
	APR-JUN	120	145	162 95	179	205	171	
WENATCHEE R. at Peshastin	APR-SEP	1190	1530	1760 105	1990	2330	1678	
	APR-JUL	1070	1370	1580 104	1790	2090	1516	
	APR-JUN	850	1090	1260 104	1430	1670	1216	
STEMILT nr Wenatchee (miners in)	MAY-SEP	71	98	117 85	136	164	138	
ICICLE CREEK nr Leavenworth	APR-SEP	255	330	380 103	430	505	370	
	APR-JUL	235	305	350 103	395	465	340	
	APR-JUN	189	245	280 104	315	370	270	
COLUMBIA R. bl Rock Island Dam (2)	APR-SEP	73800	81900	87400 121	92900	101000	72250	
	APR-JUL	62400	69200	73900 121	78600	85400	61050	
	APR-JUN	48800	54200	57800 121	61400	66800	47730	
RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
CHELAN LAKE	676.1	503.1	383.2	450.6	Chelan Lake Basin	3	139	144
					Entiat River	2	85	78
					Wenatchee River	9	95	94
					Squilchuck Creek	0	0	0
					Stemilt Creek	2	118	64
					Colockum Creek	1	58	32

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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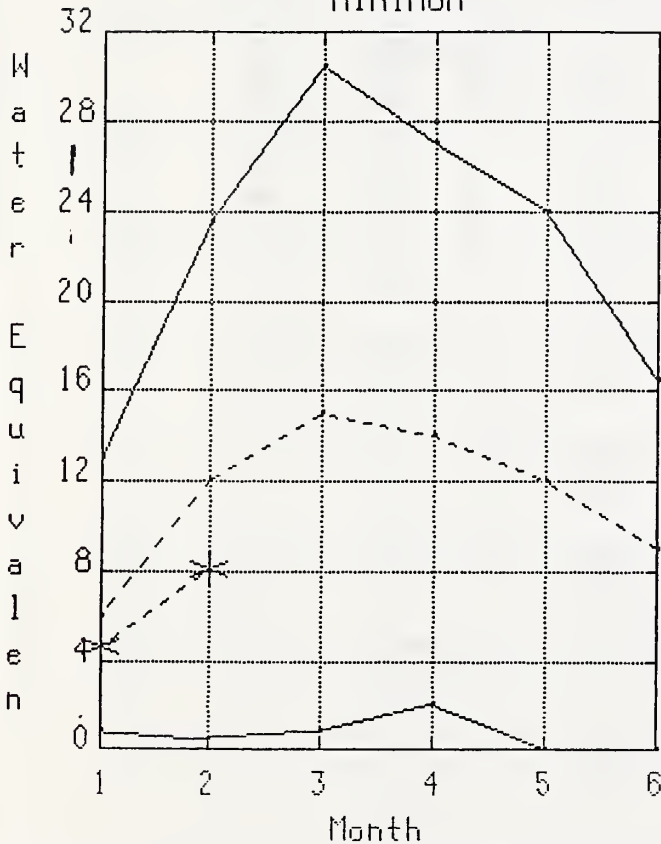
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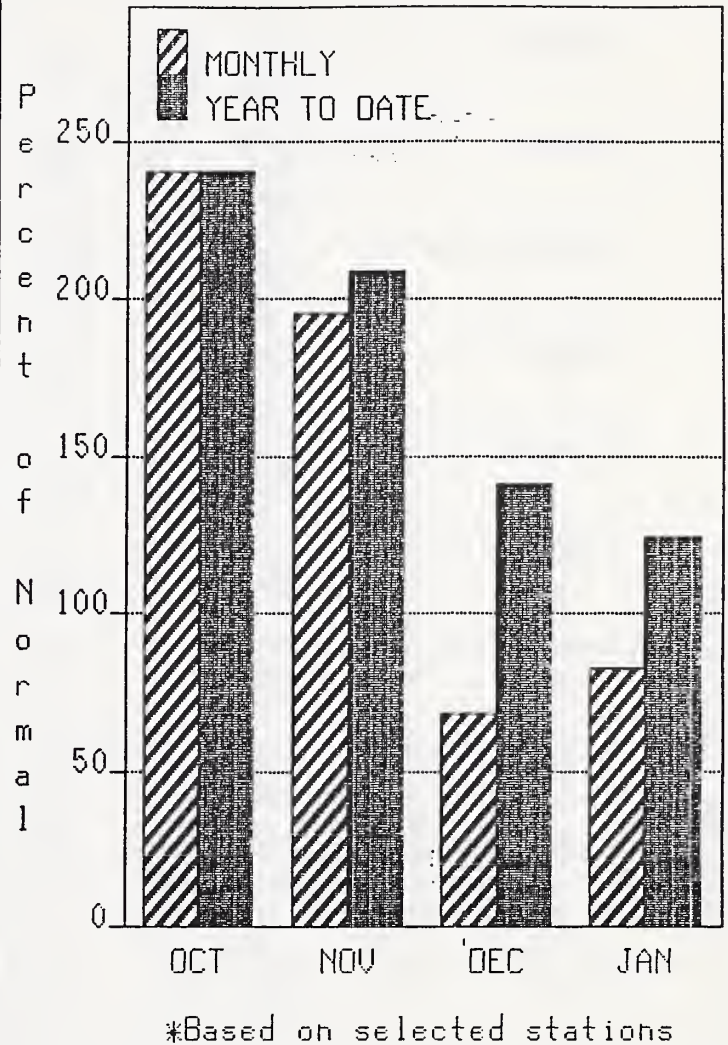
YAKIMA

Mountain snowpack* (inches)
YAKIMA RIVER BASIN

--- CURRENT
- - - - AVERAGE
- - - - MAXIMUM
- - - - MINIMUM



Precipitation* (percent of normal)
YAKIMA RIVER BASIN



WATER SUPPLY

OUTLOOK:

February 1 snowpack is 68%, down from 79% of average on January 1, in the Yakima Basin based upon 19 snow courses and SNOTEL readings. January precipitation was 85% of normal and 124% for the water year-to-date. The outlook for irrigation water for the summer is excellent with February 1 reservoir storage for the five major reservoirs at 803,200 acre feet. February 1 streamflow forecasts for the Yakima Basin runoff vary throughout the basin as follows: the Yakima River at Cle Elum, 85%; Naches River, 84%; the Yakima River at Parker, 88%; Ahtanum Creek, 85%, and Tieton River 86%. January streamflow on the Yakima River at Parker was 103% of normal, 106% on the Yakima near Cle Elum, and 103% on the Naches River. Temperatures were two degrees below average for January. Volume forecasts for the Yakima Basin are for natural flow. As such, they may differ from the U. S. Bureau of Reclamation's forecast for the total water supply available which includes adjustments for reservoir operation and irrigation return flow.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						
		<----- DRIER ----->		FUTURE CONDITIONS		----- WETTER ----->		25 YR. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	CHANCE OF EXCEEDING * (% AVG.)	30% (1000AF)	10% (1000AF)	
YAKIMA RIVER at Martin (1)	APR-SEP	96	112	120	88	128	145	136
	APR-JUL	87	103	110	87	117	133	126
	APR-JUN	78	92	98	88	104	118	112
YAKIMA RIVER at Cle Elum (2)	APR-SEP	680	755	810	85	865	940	951
	APR-JUL	605	675	720	85	770	840	846
	APR-JUN	525	585	625	85	665	725	735
YAKIMA RIVER nr Parker (2)	APR-SEP	1170	1490	1710	82	1930	2250	2075
	APR-JUL	1050	1340	1530	82	1720	2010	1862
	APR-JUN	925	1180	1350	82	1520	1770	1643
KACHESS RIVER nr Easton (1)	APR-SEP	91	111	120	90	129	149	133
	APR-JUL	78	95	103	90	111	128	114
	APR-JUN	70	85	92	90	99	114	102
CLE ELUM RIVER nr Roslyn (1)	APR-SEP	315	375	405	88	435	495	459
	APR-JUL	290	345	370	89	395	450	417
	APR-JUN	245	295	315	89	335	385	353
BUMPING RIVER nr Nile (1)	APR-SEP	79	111	125	90	140	172	139
	APR-JUL	72	102	115	90	128	158	128
	APR-JUN	61	85	96	91	107	132	106
AMERICAN RIVER nr Nile	APR-SEP	85	103	115	95	127	145	121
	APR-JUL	78	95	106	95	117	134	112
	APR-JUN	67	81	90	96	99	113	94
TIETON RIVER at Tieton (1)	APR-SEP	128	185	210	86	235	290	244
	APR-JUL	112	160	182	88	205	250	208
	APR-JUN	91	130	147	88	165	205	168
NACHES RIVER nr Naches (2)	APR-SEP	485	630	725	84	820	965	860
	APR-JUL	425	550	640	82	730	855	779
	APR-JUN	360	470	545	82	620	730	667
AHTANUM CREEK nr Tampico (2)	APR-SEP	21	33	40	85	48	59	47
	APR-JUL	19.0	29	36	84	43	53	43
	APR-JUN	16.0	25	31	84	37	46	37

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY:	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
KEECHELUS	157.8	116.7	96.0	96.0	Yakima River	19	82 68
KACHESS	239.0	194.8	134.1	170.0	Ahtanum Creek	2	106 74
CLE ELUM	436.9	340.4	195.2	251.0			
BUMPING LAKE	33.7	16.1	17.2	9.0			
RIMROCK	198.0	135.2	123.4	115.0			

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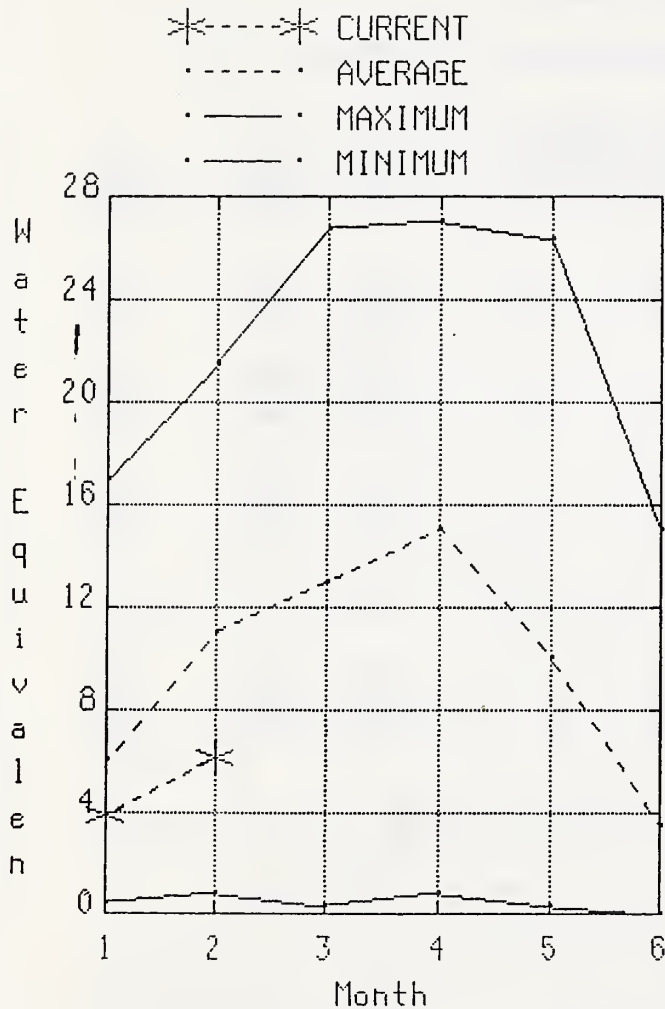
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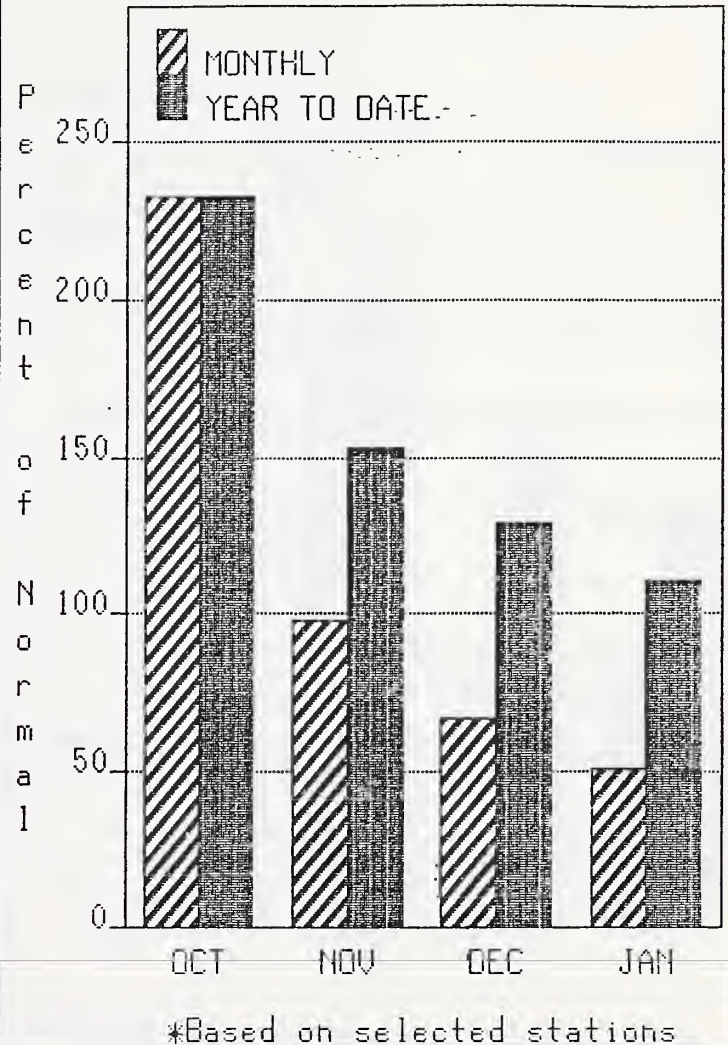
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WALLA WALLA

Mountain snowpack* (inches)
WALLA WALLA RIVER BASIN



Precipitation* (percent of normal)
WALLA WALLA RIVER BASIN



WATER SUPPLY OUTLOOK:

The forecast is for 79% of average streamflow in the Walla Walla River for the coming summer, the Grande Ronde 76%, the Snake 68% and 61% for Mill Creek. February snowpack is at 48% down from 63% of normal, as the Walla Walla Basin continues to miss the major snow events for the second year. January streamflow was 66% of normal on the Walla Walla River, 63% for the Snake River and 72% on the Grande Ronde River near Troy. January precipitation was 51% of average bringing the water year-to-date precipitation to 111% of normal. Temperatures were near average for January.

For more information contact your local Soil Conservation Service office.

WALLA WALLA RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----->		FUTURE CONDITIONS		>----- WETTER ----->		25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90%	70%	50% (MOST PROBABLE)	30%	10%		
		(1000AF)	(1000AF)	(1000AF) (% AVG.)	(1000AF)	(1000AF)		
GRANDE RONDE at Troy	MAR-JUL	575	845	1150	76	1450	1720	1512
	APR-SEP	520	765	1040	76	1310	1560	1369
SNAKE bl Lower Granite Dam (1,2)	APR-JUL	6150	12500	15500	68	18400	24800	22760
	APR-SEP	6910	14100	17400	68	20700	27900	25578
MILL CREEK at Walla Walla	APR-SEP	2.8	7.6	10.9	62	14.2	19.0	17.7
	APR-JUL	2.7	7.5	10.8	61	14.1	18.9	17.6
	APR-JUN	2.7	7.5	10.7	62	13.9	18.7	17.3
SF WALLA WALLA nr Milton Freewater	APR-JUL	34	40	44	80	48	54	55
COLUMBIA R. at The Dalles (2)	APR-SEP	82	95	104	102	113	126	102
	APR-JUL	70100	81400	89100	102	96800	103000	87100
	APR-JUN	56500	65700	71900	102	78100	87300	70470

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE :	** USEABLE STORAGE **			WATERSHED	NO.	THIS YEAR AS % OF
	CAPACITY:	THIS	LAST			COURSES	-----
		YEAR	YEAR	AVG.		AVG'D	LAST YR. AVERAGE
					Mill Creek	1	122 48

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

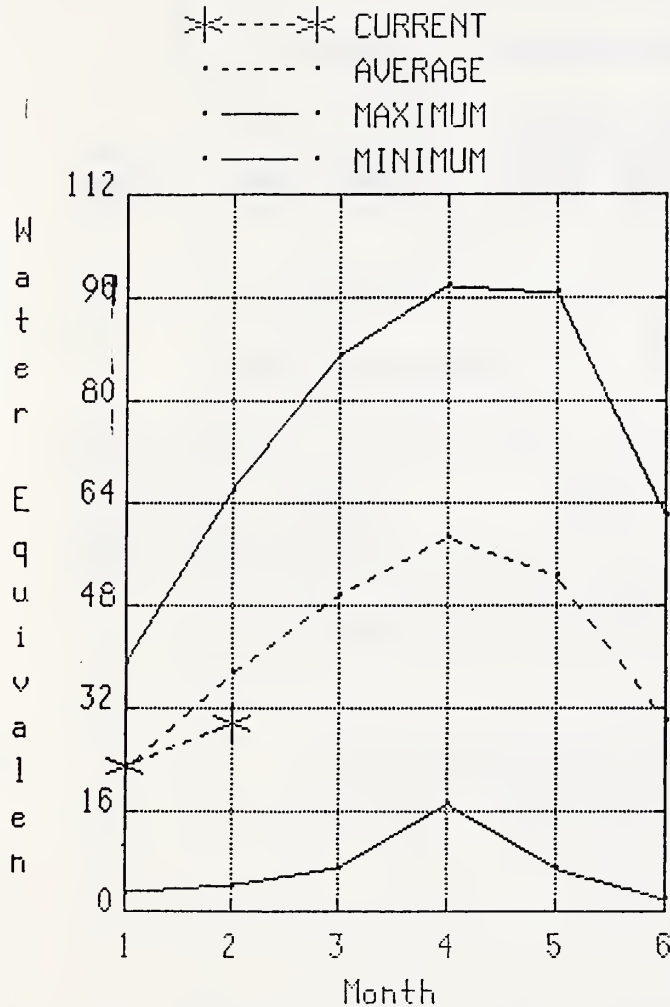
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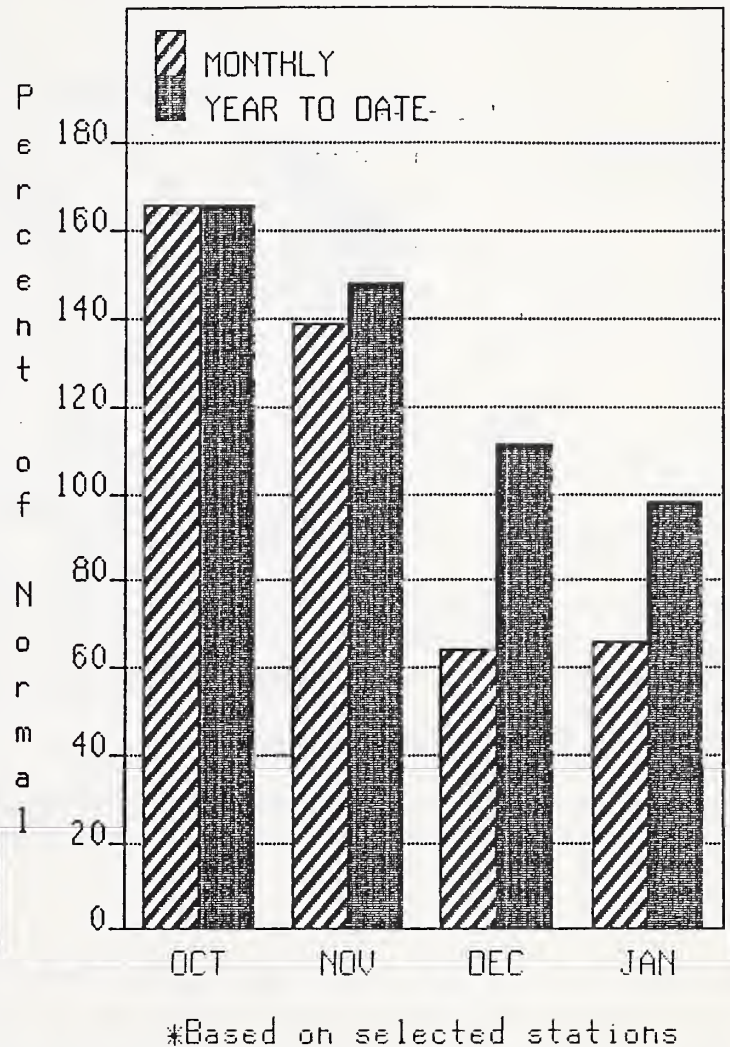
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COWLITZ AND LEWIS

Mountain snowpack* (inches)
COWLITZ - LEWIS RIVER BASINS



Precipitation* (percent of normal)
COWLITZ - LEWIS RIVER BASINS



WATER SUPPLY OUTLOOK:

Summer runoff forecasts for the Lewis River are 100%, and for the Cowlitz River, 105%. January precipitation was 64% of normal, bringing the water year-to-date precipitation to 111% of average. February 1 snow cover for the Cowlitz River is 84% and the Lewis Basin is 64% of normal. January streamflow on the Cowlitz River was 92% of average, and 56% on the Lewis River. The Paradise Park SNOTEL has the maximum water content for the basin with 49.3 inches of water, normal February 1 water content is 47.7 inches. Temperatures were one degree below normal for January.

For more information contact your local Soil Conservation Service office.

COWLITZ - LEWIS RIVER BASIN

STREAMFLOW FORECASTS

		<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						
FORECAST POINT	FORECAST PERIOD	CHANCE OF EXCEEDING *						
		90%	70%	50% (MOST PROBABLE)	30%	10%	25 YR.	
		(1000AF)	(1000AF)	(1000AF) (% AVG.)	(1000AF)	(1000AF)	(1000AF)	

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

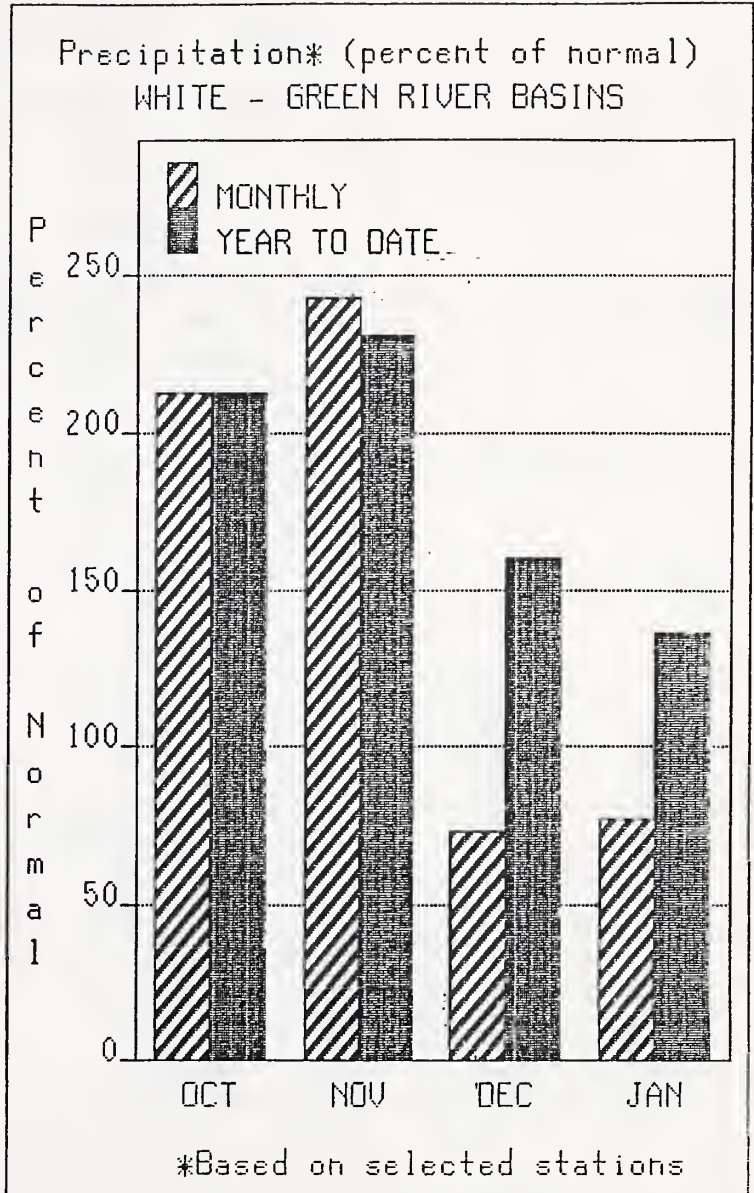
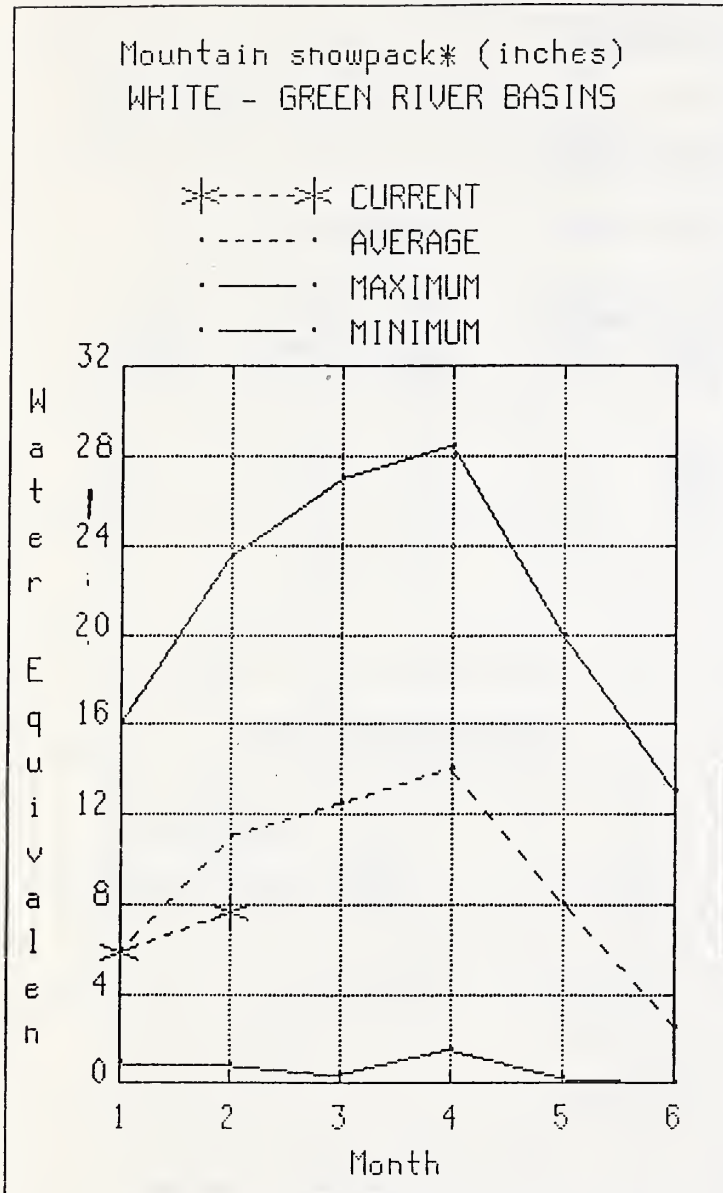
RESERVOIR	USEABLE : ** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
	CAPACITY:	THIS	LAST			-----	-----
	: YEAR	YEAR	AVG.			LAST YR.	AVERAGE

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

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- (2) - The value is natural flow - actual flow may be affected by upstream water management.

WHITE - GREEN



WATER SUPPLY OUTLOOK:

Summer runoff is forecasted to be 88% on the Green River down from 100% last month, and 96% of normal on the Cedar River down from 103%. February 1 snowpack was 60% of normal on the White River and 76% in the Green Basin. Water content on February 1 at the Stampede Pass SNOTEL, at an elevation of 3860 feet, was 25.9 inches, this site has a February 1 average of 27.8 inches. January precipitation was 73% of normal, bringing the water year-to-date to 135% of average. Temperatures were near average for January.

For more information contact your local Soil Conservation Service office.

WHITE - GREEN RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->							
		CHANCE OF EXCEEDING *							25 YR. (1000AF)
		90%	70%	50% (MOST PROBABLE)		30%	10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)		
GREEN R bl Howard Hanson Dam (2)	APR-SEP	154	215	255	88	295	355	291	
	APR-JUL	144	198	235	90	270	325	261	
	APR-JUN	128	177	210	89	245	290	236	
CEDAR RIVER nr Cedar Falls	APR-SEP	57	76	89	96	102	121	93	

RESERVOIR STORAGE					(1000AF)					WATERSHED SNOWPACK ANALYSIS				
RESERVOIR		USEABLE :	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF						
		CAPACITY:	THIS	LAST	AVG.			LAST YR.	AVERAGE					
		: YEAR	YEAR	YEAR										
						White River	2	76	60					
						Green River	7	92	76					
						Cedar River	0	0	0					

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

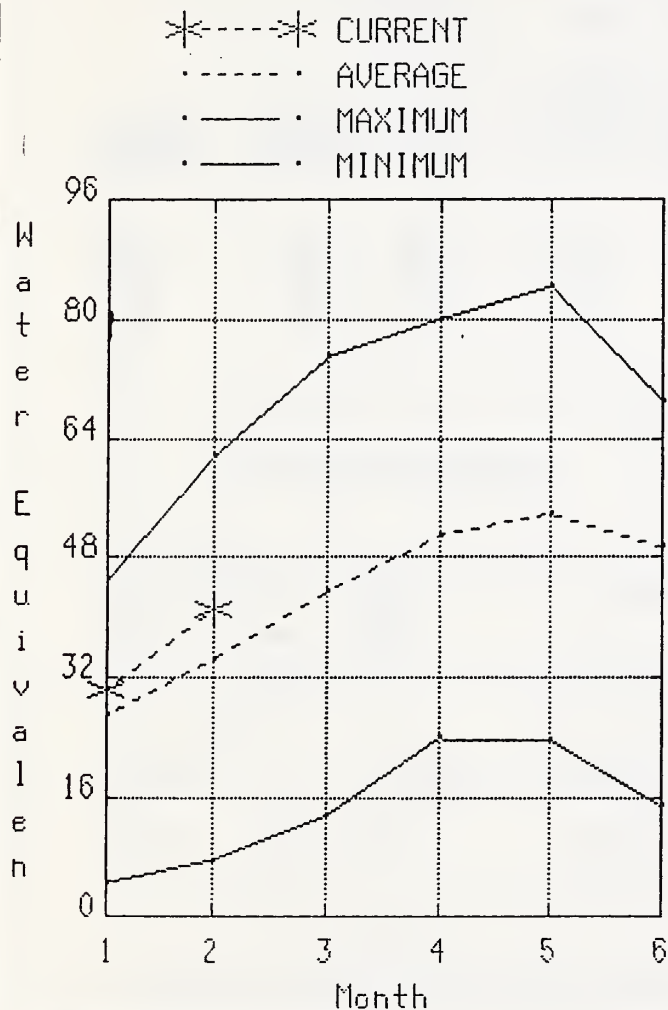
The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

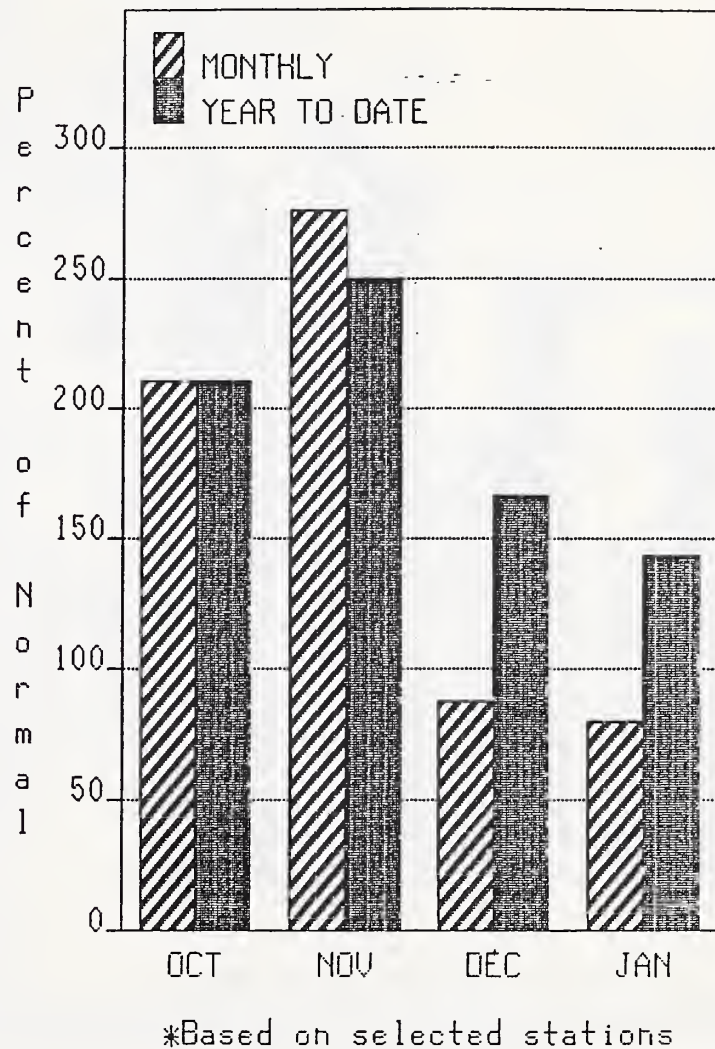
(2) - The value is natural flow - actual flow may be affected by upstream water management.

NORTH PUGET SOUND

Mountain snowpack* (inches)
NORTH PUGET SOUND RIVER BASINS



Precipitation* (percent of normal)
NORTH PUGET SOUND RIVER BASINS



WATER SUPPLY

OUTLOOK:

February 1 snow cover in the Skagit Basin is 139% of normal. January streamflow in the Skagit River was 120% of average. Forecast for the Skagit River is 120% of normal for the spring and summer period. February 1 reservoir storage is above average, with Ross Lake reservoir at 102% of normal and 75% of capacity. Precipitation values for January were 79% of average with a water year-to-date at 143% of normal. January temperatures were near normal. Rainy Pass SNOTEL at elevation of 4780 feet, has 40.6 inches of water content; normal February 1 water content is 34.3 inches.

For more information contact your local Soil Conservation Service Office.

NORTH PUGET SOUND RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<div style="display: flex; justify-content: space-between; align-items: center;"> <----- DRIER ----- FUTURE CONDITIONS ----- WETTER -----> </div>						
		CHANCE OF EXCEEDING *						
		90%	70%	50% (MOST PROBABLE)		30%	10%	25 YR.
		(1000AF)	(1000AF)	(1000AF) (% AVG.)		(1000AF)	(1000AF)	(1000AF)
SKAGIT RIVER at Newhalem (2)	APR-SEP	2230	2520	2720	120	2920	3210	2264
	APR-JUL	1860	2100	2270	120	2440	2680	1891
	APR-JUN	1420	1600	1730	120	1860	2040	1442

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE :	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
	CAPACITY:	THIS YEAR	LAST YEAR	AVG.			----- LAST YR. AVERAGE	
ROSS	1404.1	1051.9	1048.7	1033.9	Snoqualmie River	2	115	73
DIABLO RESERVOIR	90.6	83.1	85.3	84.2	Skykomish River	3	87	97
GORGE RESERVOIR	NO REPORT				Skagit River	12	153	139
					Baker River	0	0	0

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

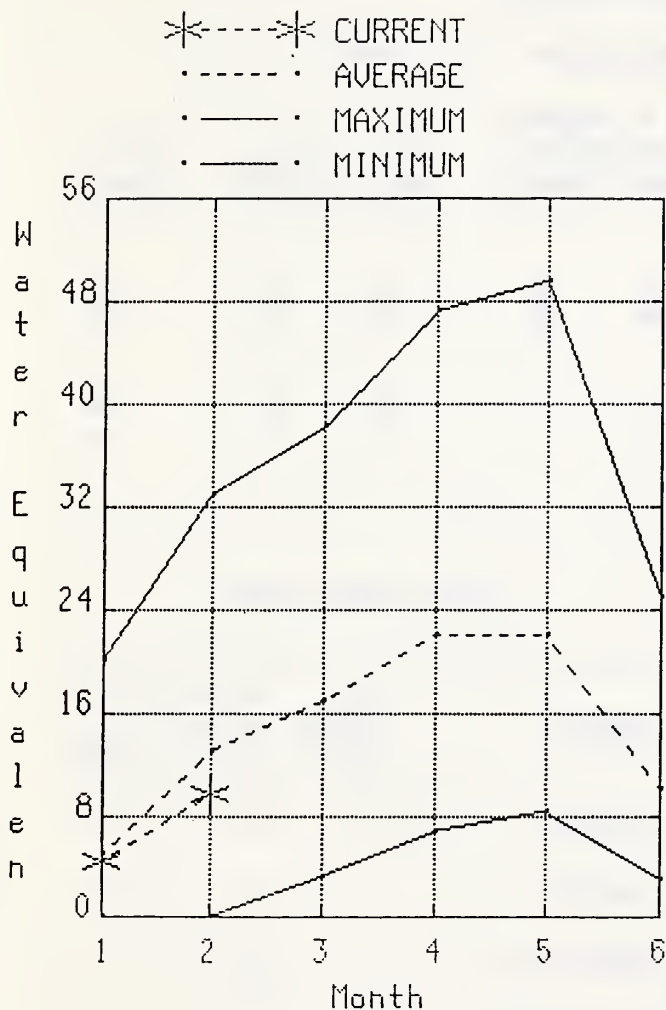
The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

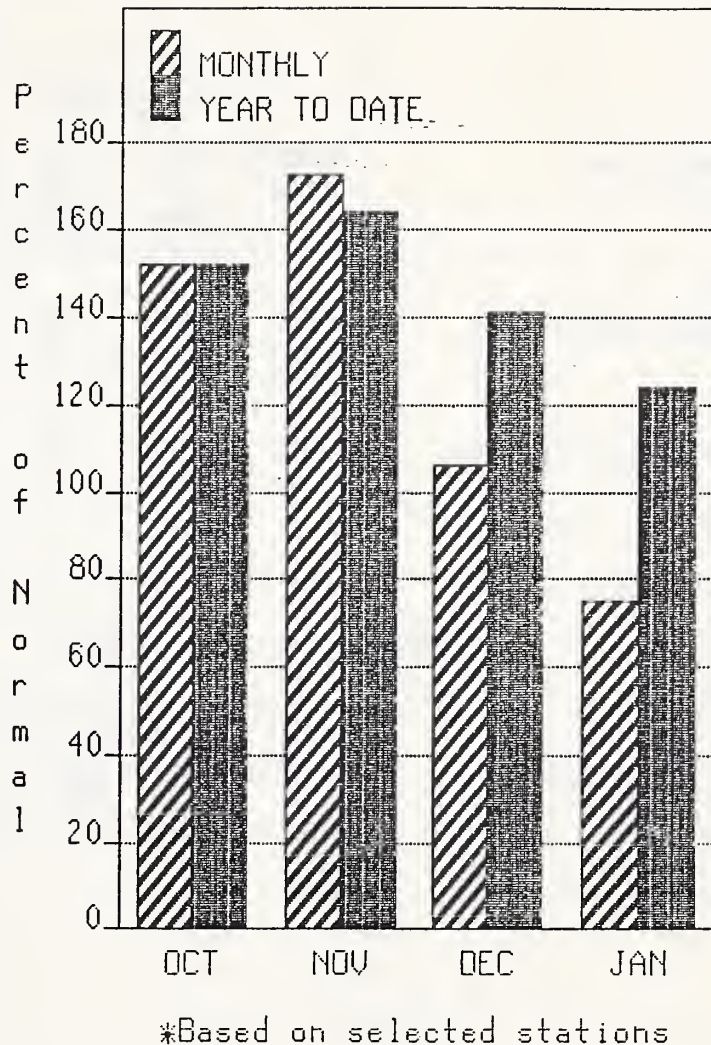
(2) - The value is natural flow - actual flow may be affected by upstream water management.

OLYMPIC

Mountain snowpack* (inches)
OLYMPIC PENINSULA RIVER BASINS



Precipitation* (percent of normal)
OLYMPIC PENINSULA RIVER BASINS



WATER SUPPLY OUTLOOK:

February 1 snow cover in the Olympic basins is at 74% of normal. February forecasts of runoff for streamflow in the basin are for 88% of average on the Dungeness River, down from 102% last month, and 91% for the Elwah River, down from 100% last month. The Big Quilcene can expect below normal runoff this summer. January precipitation was 80% of average, with Quillayute receiving 10.87 inches. The basin water year-to-date precipitation accumulation is 126% of normal. The Mount Craig SNOTEL near Quilcene had 7.5 inches on February 1, with the snowpack at Hurricane Ridge at 28 inches in depth and 8.8 inches of water. Temperatures were near normal for January.

For more information contact your local Soil Conservation Service office.

OLYMPIC PENINSULA RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<div> <div><----- DRIER -----</div> <div>FUTURE CONDITIONS</div> <div>----- WETTER -----></div> </div>						
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
DUNGENESS RIVER nr Sequim	APR-SEP	108	127	140	88	153	172	159
	APR-JUL	90	106	116	90	126	142	129
	APR-JUN	68	79	87	90	95	106	97
ELWHA RIVER nr Port Angeles	APR-SEP	395	460	505	91	550	615	553
	APR-JUL	335	390	425	94	460	515	454

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE :	** USEABLE STORAGE **		WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
	CAPACITY:	THIS YEAR	LAST YEAR AVG.			LAST YR.	AVERAGE
				Elwha River	1	110	62
				Morse Creek	1	141	80
				Dungeness River	1	112	76
				Quilcene River	0	0	0
				Wynoochee River	0	0	0

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

